



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/735,721	12/13/2000	Louis Brown Abrams	D. N. 7218	4531
7590 03/13/2008 Sheridan Ross PC 1560 Broadway Suite 1200 Denver, CO 80202-5141			EXAMINER JUSKA, CHERYL ANN	
			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			03/13/2008	PAPER

## ACKNOWLEDGEMENT OF REQUEST

*Notice of Allowance/Allowability Mailed*

The request for a copy of the initialed PTO 1449, dated 3/10/08, has been received by the U.S. Patent and Trademark Office.

♦ Requested copy attached

571-272-4200 or 1-888-786-0101  
Application Assistance Unit  
Office of Data Management

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	09735721
Filing Date	2000-12-13
First Named Inventor	Abrams
Art Unit	1771
Examiner Name	JUSKA, CHERYL ANN
Attorney Docket Number	4811-9-CIP

**U.S. PATENTS**[Remove](#)

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	2592602		1952-04-15	Saks	
	2	2999763		1961-09-12	Sommer	
	3	3215584		1965-11-02	McConnell et al.	
	4	3314845		1967-04-18	Perri	
	5	3377232		1968-04-09	Mencock et al.	
	6	3459579		1969-08-05	Newman	
	7	3496054		1970-02-17	Baigas	
	8	3660200		1972-05-02	Anderson et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /CJ/

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		09735721
Filing Date		2000-12-13
First Named Inventor	Abrams	
Art Unit	1771	
Examiner Name	JUSKA, CHERYL ANN	
Attorney Docket Number	4811-9-CIP	

	9	3772132		1973-11-13	Dulin, Jr.	
	10	3803453		1974-04-09	Hull	
	11	3900676		1975-08-19	Alderson	
	12	3969559		1976-07-13	Boe	
	13	4025678		1977-05-24	Frank	
	14	4218501		1980-08-19	Kameya et al.	
	15	4430372		1984-02-07	Knoke et al.	
	16	4465723		1984-08-14	Knoke et al.	
	17	5077116		1991-12-31	Lefkowitz	
	18	6436506		2002-08-20	Pinter et al.	
	19	6676796		2004-01-13	Pinter et al.	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	09735721
Filing Date	2000-12-13
First Named Inventor	Abrams
Art Unit	1771
Examiner Name	JUSKA, CHERYL ANN
Attorney Docket Number	4811-9-CIP

If you wish to add additional U.S. Patent citation information please click the Add button.

**U.S. PATENT APPLICATION PUBLICATIONS**

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20070003761		2007-01-04	Miyazono et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

**FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	56107080	JP		1981-08-25	TORAY INDUSTRIES		<input checked="" type="checkbox"/>
	2	55079143	JP		1980-06-14	TORAY INDUSTRIES		<input checked="" type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button.

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1	"Bicomponent Fibers", available at <a href="http://web.utk.edu/~mse/pages/Textiles/Bicomponent%20fibers.htm">http://web.utk.edu/~mse/pages/Textiles/Bicomponent%20fibers.htm</a> , Updated April, 2004, 8 pages	<input type="checkbox"/>
	2	Official Action for U.S. Patent Application No. 09/621,830, mailed May 16, 2007 (4811-9)	<input type="checkbox"/>
	3	Official Action for U.S. Patent Application No. 10/455,541, mailed June 25, 2007 (4811-9-DIV)	<input type="checkbox"/>

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /CJ/

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	09735721
Filing Date	2000-12-13
First Named Inventor	Abrams
Art Unit	1771
Examiner Name	JUSKA, CHERYL ANN
Attorney Docket Number	4811-9-CIP

/CJ/	4	Official Action for U.S. Patent Application No. 10/455,575, mailed June 20, 2007 (4811-9-CIP-DIV)	<input type="checkbox"/>
------	---	---	--------------------------

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	/Cheryl Juska/	Date Considered	12/09/2007
--------------------	----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 If possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

IDS - 08/22/2006

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number	09735721
	Filing Date	2000-12-13
	First Named Inventor	Louis Brown Abrams
	Art Unit	1771
	Examiner Name	Cheryl Ann Juska
	Attorney Docket Number	4811-9-CIP

U.S. PATENTS								
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
CJ	1	4741791		1988-05-03	Howard et al.			
If you wish to add additional U.S. Patent citation information please click the Add button.								
U.S. PATENT APPLICATION PUBLICATIONS								
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Published Application citation information please click the Add button.								
FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1							<input type="checkbox"/>
If you wish to add additional Foreign Patent Document citation information please click the Add button.								
NON-PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.						T <sup>5</sup>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	09735721
Filing Date	2000-12-13
First Named Inventor	Louis Brown Abrams
Art Unit	1771
Examiner Name	Cheryl Ann Juska
Attorney Docket Number	4811-9-CIP

CJ	1	European Search Report, issued July 17, 2006, in European Patent Application No. 01998050.7, Atty Docket No. 4811-9-CIP-PEP.	<input type="checkbox"/>
----	---	--	--------------------------

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	/Cheryl Juska/ (11/08/2006)	Date Considered	11/08/2006
--------------------	-----------------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

Sheet

1

of

1

## **Complete if Known**

Application Number	09/735,721
Filing Date	December 13, 2000
First Named Inventor	Louis Brown Abrams
Art Unit	1771
Examiner Name	Cheryl Ann Juska
Attorney Docket Number	4811-9-CIP

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.¹	Document Number Number-kind Code¹/²/known	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No.¹	Foreign Patent Document Country Code²; Number²; Kind Code² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T²

## **OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)**

Examiner Initials*	Cite No.¹	
CJ	AA	June 16, 2006 Office Action In Re Application Of Louis Brown Abrams; Application No. 10/670,091; filed September 23, 2003; Atty. Docket No. 4811-9-CON

Examiner Signature	/Cheryl Juska/ (11/08/2006)	Date Considered	11/08/2006
-----------------------	-----------------------------	--------------------	------------

\*EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.